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| APPLICATION NO. | FILING DATE . | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------|----------------|----------------------|-------------------------|------------------|
| 10/789,330 | 02/26/2004 | Sung-Ki Jung | 1190860-991460 | 9372 |
| 32605 | 7590 10/12/200 | 5 | EXAMINER | |
| MACPHERSON KWOK CHEN & HEID LLP | | | TADESSE, YEWEBDAR T | |
| | WAY PLACE | | ART UNIT | PAPER NUMBER |
| SUITE 400 | | | AKTONII | FAFER NUMBER |
| SAN JOSE, CA 95110 | | | 1734 | |
| | | | DATE MAILED: 10/12/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Anniestion No. | Applicant(a) | | | | |
|--|---|---|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Action Summary | 10/789,330 | JUNG ET AL. | | | | |
| cor.iouen cumuary | Examiner | Art Unit | | | | |
| The MAILING DATE of this communication app | Yewebdar T. Tadesse | 1734 | | | | |
| Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | • | | | | | |
| 1) Responsive to communication(s) filed on | | | | | | |
| · | action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-21</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) <u>10-21</u> is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-7 and 9</u> is/are rejected. | | | | | | |
| 7) Claim(s) 8 is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | • | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
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| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application | | | | | | |
| Paper No(s)/Mail Date 6) Other: | | | | | | |
| | | | | | | |

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of group I in the reply filed on 07/28/2006 is acknowledged.
- 2. Claims 10-21 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 07/28/2006.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The above-cited claims contain the following trademarks/trade names: Teflon. Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982. The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the

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trademark or trade name. In the present case, the trademark/trade name is used to identify/describe the cleaning member is indefinite. Appropriate correction is required.

5. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 4 recites the limitation "the bottom surface" in claim 1. There is insufficient antecedent basis for this limitation in the claim. For the purpose of examination the phrase "the bottom face" is assumed

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1, 4-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakai et al (US 6,210,481).

As to claim 1, Sakai et al discloses (see Figs 4-6) a cleaning unit for cleaning a slit coater (see column 5, lines 5-6) for coating a substrate with a material, the cleaning unit comprising: a body including an upper face, the upper face having a receiving recession (see Fig 6) for receiving a slit nozzle of the coater, the receiving recession having a sidewall and a bottom face (see the bottom surface of the chamber 52), the sidewall having a first injection hole (57a, 57b), a cleaning material being sprayed via the first injection hole; and a cleaning member (drain unit 54 connected with an exhaust unit 85, see column 6, lines 14-18) capable of eliminating dregs of material attached on

the slit nozzle of the slit coater, wherein the cleaning member (the drain unit 54 connected with an exhaust unit 85) being attached on the bottom face of the receiving recession (the bottom surface of the chamber 52).

With respect to claim 4, in Sakai et al the cleaning member (exhaust unit 84 and drain unit 54) is considered to be detachably attached on the bottom surface of the chamber 52 (see Figs 5 and 7).

As to claims 5-6, in Sakai et al the sidewall has a first injection hole or a second injection hole (57a, 57b), gas is sprayed via the injection holes so as to dry the nozzle after spraying the cleaning material (see column 6, lines 5-13).

Regarding claim 7, in Sakai et al the cleaning unit as shown on Fig 6 includes inclined faces as claimed and the slit coater inserted into the cleaning chamber or unit of Sakai et al device is capable of having inclined faces and a connection face as claimed.

As to claim 9, in Sakai et al the material is photoresist (see column 2, lines 43-45).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al (US 6,210,481) in view of Scheffler (US 3,933,186).

Sakai et al lacks teaching a cleaning member comprising rubber material.

However the use drain piping made of rubber is well known in the art; for instance

Scheffler discloses such feature (see column 4, lines 44-51). It would have been

obvious to one of ordinary skill in the art at the time the invention was made to include

cleaning member (drain pipe) comprising rubber material in Sakai et al to prevent

corrosion.

Allowable Subject Matter

11. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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12. The following is a statement of reasons for the indication of allowable subject matter: prior art of record does not disclose or suggest, a cleaning unit for cleaning a slit coater comprising, among others, the cleaning unit making contact with the connection face of the slit nozzle during a cleaning process.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yewebdar T. Tadesse whose telephone number is (571) 272-1238. The examiner can normally be reached on Monday-Friday 8:00 AM-4: 30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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